METOC JMS/MIS

1. System Description

METOC imports, processes, displays and disseminates Meteorological and Oceanographic products for layered overlay on the COP. It is a high-level decision aid/briefing tool as opposed to a forecasting tool. It provides the use of "CNN" type symbology to present environmental data to decision makers. Products include forecasts, warnings, gridded field data, satellite imagery, briefing symbology, and observations. Information is supplied on a "push/pull" basis. Operators can pull JMV bundles containing gridded field information, satellite (gif) information and observation data over the SIPRNET. Various Production, Regional and AFLOAT centers push to METOC. Users can also download data from various centers' Web pages. METOC contains six segments. Combined, they deliver the following functionality:

- **METOC Imagery** – allows viewing, animating, and management of METOC image format (MIF) files; overlay of static and animated imagery on the COP using JMTK.

- **METCOM Communications** – allows download of OTH-T Gold format weather data from Fleet numerical SIPRNET website. Downloaded data can be viewed as raw grid data and displayed on the COP.

- **GRID Draw** – allows retrieval of gridded data which can be drawn on the COP.

- **Object Plot** – allows retrieval and display of environmental data, such as wind barbs, on the COP.

- **METOC Overlays** – a draw utility which allows placing METOC symbology, text, etc., on the COP. These overlays can be transmitted to other GCCS sites.

- **Editors** – allows creating, storing, and displaying surface and air observation data on the COP. Environmental Editor allows creation, viewing, editing of Bathythermographic and Ocean profile data and placing it on the COP.

- **Brief Utility** – a Powerpoint like presentation builder which allows use of lines, text, polygons, pixmap and METOC symbols. It provides capability to create and annotate images, or pictures, and assemble them into products for electronic briefings. Graphics created can also be transmitted to other users.

- **METOC Status Board** – a presentation tool that can be displayed on the COP. It creates mission scenarios with "RED/YELLOW/GREEN" assessment of the mission based on environmental factors.

- **METOC Data Server** – Ingests and manages meteorological and oceanographic data provided from external sources. Provides services to METOC client applications desiring environmental data.

- **PARSER** – Provides message parsers, or decoders, for OTH-T Gold messages. Decodes OTH-T Gold, GRIDFLD, RDSND, BATHY, MUNIT and NUNIT messages.

2. System Requirements

METOC JMS/IMS runs on the Solaris Platform.

3. Users/Training

METOC is used by meteorological personnel who need briefing and decision aid tools.